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ABSTRACT

This research examined the relationships of attitudes toward the Army, duty environment, and satisfaction with Army programs/benefits to the career intentions of officers and enlisted personnel. A representative random sample of 4,360 officers and 2,339 enlisted personnel completed a 178-item questionnaire about their attitudes toward these factors. Results showed that similar dimensions of commitment to the Army, satisfaction with programs, duty environment, and career intentions are found within both categories of service members. Career intentions for officers, however, were more related to overall satisfaction with Army human resource programs and with assessment of housing and pay. However, while about 40 percent of the variance in the career intentions of officers was accounted for by commitment, only 10 percent of the variance in the career intentions of enlisted members was accounted for by these analyses. (The report also explores statistical and research methodological issues that should be considered in future investigations.) (Author/RC)

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RELATIONSHIPS AMONG ORGANIZATIONAL ATTITUDES, WORK ENVIRONMENT, SATISFACTION WITH HUMAN RESOURCE PROGRAMS AND BENEFITS, AND ARMY CAREER INTENTIONS

Bruce Sterling and John Allen

ARI FIELD UNIT AT FORT BENJAMIN HARRISON, INDIANA

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The report also explores statistical and research methodological issues which should be considered in future investigations of these issues.

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RELATIONSHIPS AMONG ORGANIZATIONAL ATTITUDES, WORK ENVIRONMENT, SATISFACTION WITH HUMAN RESOURCE PROGRAMS AND BENEFITS, AND ARMY CAREER INTENTIONS

Bruce Sterling and John Allen

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The Fort Benjamin Harrison Field Unit of the Army Research Institute for the Behavioral and Social Sciences is responsible for providing the Army with information and products to enhance personnel management. Retention of soldiers is a critical personnel concern. This report reviews prior retention research to determine the classes of variables, under control of the Army, related to soldiers' career decisions, the relative strengths of those relationships and potential gaps in the retention literature. It then describes a research effort focused on filling those gaps. The information produced may be useful to Army decision makers in the personnel/retention areas. This research is part of the overall FY 82 ARI Work Program under Domain 1 (Manning and Maintaining the Force), Thrust 5 (Personnel System Management) work united (Developing Personnel Doctrine).

EDGAR M. JOHNSON Technical Director

8/1

Requirement:

Prior research has found three classes of variables, under control of the Army, that are related to service members' career intentions. They are, in order of the reported strength of that relationship, perceptions of duty environment, attitudes toward the Army (e.g., commitment, patriotism) and satisfaction with Army programs and benefits. However, very few studies have compared the effects of all three classes of variables in concert on career intentions. Second, no research has investigated a data set using officers and enlisted personnel as separate samples and finally none has attempted to codify the Army's numerous programs/benefits on the basis of perceptions of consumers. The present research advances Army understanding of quality of life issues by correcting these three shortcomings.

Procedure:

A random sample of Army officers and enlisted personnel at numerous posts in CONUS, USAREUR and Korea was selected to complete the 197A Quality of Life survey at a central location on their post during duty time. Completed surveys were obtained from roughly 70 percent of those selected. From this group a random representative sample of 4360 officers and 2339 enlisted personnel was identified by the ARI Fort Harrison Field Unit for secondary data analysis. The survey contained 178 items concerning commitment to the Army, perception of duty environments, satisfaction with Army programs/ benefits, career intentions and other areas not included in the present analyses.

Findings:

Forty percent of the variance in officer career intentions could be accounted for, as opposed to only 10% of the variance in enlisted career intentions. However, different factors seemed to be related to career intentions for the two groups. For officers, commitment (particularly pride in the Army) was highly related to career intentionally for enlisted members career intentions were most related to general satisfaction with programs and satisfaction with housing.

Similar dimensions of commitment to the Army kisted for both officers and enlisted members. Specifically, both groups perceived commitment in terms of pride in the Army, supervisory support, personal job involvement and sacrifice for mission accomplishment. Also, a large general program satisfaction factor (perhaps representing an overall impression of the extent to which the Army "takes care of its own") was found for both groups. Each group saw specific programs/benefits breaking down into eight categories, seven of which were identical for both groups. These were medical services, troop housing, post transportation services, substance abuse programs, arts and crafts facilities, retirement benefits and child care services. For officers, the eighth factor was dependent youth activities while for enlisted it was family housing. Also, the unidimensional factors of duty environment and career intentions are similar for officers and enlisted personnel.

Utilization of Findings:

These findings could be utilized by Department of Army level decision makers. Assuming that the independent variables influence career intentions rather than vice-versa, it may be useful to develop programs to maintain officer's pride in the Army, such as conducting public relationship efforts to enhance the Army's prestice among the general public. For enlisted members, it is recommended that Army benefits/programs, particularly housing, be considered as priority programs for funding, since they have a relatively small but reliable positive relationship with career intentions.

The findings are also useful to the research community. The eight categories of programs/benefits discovered here should be used in future quality of life research. Also, the recommendations on appropriate sample sizes and redesign of the survey reported in Appendix C should be incorporated in future research in this area.

RELATIONSHIPS AMONG ORGANIZATIONAL ATTITUDES, WORK ENVIRONMENT, SATISFACTION WITH HUMAN RESOURCE PROGRAMS AND BENEFITS; AND ARMY CAREER INTENTIONS

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Maintaining an adequate number of personnel is important to the Army. Therefore, knowledge concerning the types of factors related to career intentions of soldiers is useful to Army decision makers at all levels. The purpose of this research is to supply information concerning the relationships of various classes of variables to the career intentions of soldiers. The first section of this paper outlines the classes of variables related to career intentions or decisions that have been examined in the literature, and draws conclusions concerning which of these classes are most highly related to career intentions. Next, the shortcomings of these research efforts are examined. The remainder of the paper is devoted to describing a research effort which remedies these deficiencies, and the results of that research.

Research concerning career intentions has identified four classes of variables related to career intentions: demographic/background variables; attitudes toward the military (e.g., patriotism; commitment); satisfaction with duty environment; and perceptions of Army benefits. Eaton and Lawton (1980) review studies collectively containing all four categories (although they classify predictors of career intent into only two categories: demographic/personal variables and military experience variables). Their review suggests at least two conclusions to them. First, variables in all four classes (demographic, military attitudes, duty environment, benefits) are found to affect career integtions. Second, although demographic variables may predict career intentions, they are of little practical use to the Army. That is, assuming that one knows that socioeconomic status (SES) is negatively associated with career intentions, one cannot nevertheless only concentrate recruiting efforts among lower SES segments of the bopulation. Thus the principal value of such information is limited to predicting probable personnel retention trends. In light of this, the category of demographic/ background variables will not be considered further.

A number of studies concerning the relative impact of two or more of these three classes of variables (military attitudes, duty environment and programs/ benefits) suggest that duty environment variables may be the best predictors of career intentions. Owen (1969) studying the Australian Army, found that work role factors (e.g., quality of training) were more related to reenlist= ment intentions than were remunerative benefits. Holz and Gitter (1974) found that duty environment variables (e.g., being treated like a person) were more predictive of reenlistment intent than was satisfaction with quarters, food, post facilities, etc. Woelfel (1976) discovered that job satisfaction and other duty environment variables (e.g., whether one was working in one s primary military specialty or not) were more related to career intentions than were satisfaction with Armyleconomic benefits (e.g., post/exchange, commissary, pay, health care or housing). Goldman and Worstine (1977) showed that beliefs that one's work was interesting was more predictive of reenlistment intentions among enlisted than were opinions on military compensation. Bonette and Worstine (1979) found that satisfaction with Army policies and procedures (a duty environment variable) was most highly related to reenlistment intent for career enlisted members while challenge, interest and importance of current duties (a concept similar to job satisfaction) was the best predictor of first term soldiers' reenlistment intentions. Satisfaction

with pay and allowances was only the second most important factor in determining reenlistment intentions for both groups. Eaton and Lawton (1980) found that boredom and lack of challenge were more highly related to enlisted members' intent to leave the Army than was satisfaction with reenlistment bonuses. Martin (1979), in a non-military setting, found that job satisfaction was more highly related to intent to remain in the organization than was organizational commitment (an attitudinal variable). Similarly Holz and Schreiber (1977) found that job satisfaction was a better predictor of enlisted member's reenlistment intentions than either military related attitudes (Submissiveness to authority) or opinions of military benefits forograms (e.g., recreational availability).

Other research presents equivocal findings concerning the importance of duty environment variables in predicting career intentions. Card, Goodstadt, Gross, and Shanner (1975) found that while attitudinal variables (e.g., patriotism) were related to intent to remain in the Reserve Officer Training Corps, job satisfaction was a better predictor of career intent among active duty officers. How and Hulin (1980) in a civilian setting, showed duty environment (job satisfaction) and attitudinal variables (organizational commitment) to be related equally to career intentions.

Also, some studies suggest that attitudinal variables, especially organizational commitment, are most highly related to career intentions. Steers (1977) suggested that job characteristics influence commitment, which in turn results in intent to remain in the organization. Similarly Koch and Steers (1978) showed that job characteristics determined job attachment (a concept similar to commitment) which in turn was predictive of turnover rates. Farrell and Rusbult (1981) argued that job commitment is more highly related to turnover rates than is job satisfaction.

Only one study (Foley, 1976) suggests that erosion of military benefits is of paramount importance in determining officers' career intentions. However, examination of the study's results shows that duty environment factors (e.g., superiors' interest in me, duty assignments) and military related attitudes (e.g., opportunity to serve in the national interest) are as important influences to stay as erosion of benefits is an influence to leave the service.

Thus, with the exception of demographic variables, there appears to be three classes of variables influenceable by the Army related to career intentions or decisions: perceptions of duty environment, attitudes toward the Army (e.g., commitment, patriotism) and Army programs/benefits. Further, the class of variables which appear to be most highly and consistently related to career intentions is duty environment, with attitudes toward the organization next and attitudes toward programs/benefits least highly and frequently related to career intentions:

The above studies suffer several limitations. First, only a few (Foley, 1976; Holz & Schreiber, 1977) have contrasted the effects of variables from all three classes (attitudes, duty environment, programs/benefits) on career intentions. Second, none has examined data for officers and enlisted

separately, although it is likely that the processes and factors determining career intentions differ in these groups. Finally, none of these studies attempts to codify the military's myriad programs/benefits by meaningful classes, rather than simply considering a few programs for analysis. The present study remediates these deficiencies.

METHOD

Subjects

Subjects completing the original survey were approximately 5 percent of the Army's enlisted members and 20 percent of the officers from grades 01 to 03 and W01 to W02 thus yielding a total sample in excess of 50,000. Since this amount of data was unwieldy to analyze and, in the case of enlisted, was not based on sampling each post at the same intensity, a random sample of enlisted was selected so that posts were proportionately represented. This sample involved approximately 1% of the Army's total_enlisted force. All officers in the sample were retained for analysis. This produced samples of 2339 and 4360 for enlisted and officers respectively.

Instrument

The survey used was the 1979 Assessment of Quality of Life Programs, reproduced at Appendix A. It consisted of 178 total items. The first 15 were demographic items. Items 16 to 38 concerned various attitudes toward the Army. Items 39 to 176 dealt with opinions of various Army programs/entitlements (odd numbers concerned perceived importance of the programs while even numbered fones dealt with perceived satisfaction with programs). The last two items were open-ended questions concerning things people liked or disliked about the Army. Items and scales analyzed in this research are presented at Appendix B.

Procedure

Service members from numerous Army posts in CONUS, USAREUR and Korea were randomly selected from MILPERCEN tapes. A list of selected members was sent to each post. These personnel were then notified to report to a testing site where they completed the survey during duty time. Completed surveys were obtained from about 70 percent of the selected respondents.

RESULTS

Tables 1 and 2 present the means, standard deviations, and item-by-item intercorrelations for variables for the enlisted and officers respectively.

Separate stepwise multiple regressions for officer and enlisted samples were performed, with career intentions serving as dependent variable and the four commitment scales, duty environment scale, general program satisfaction scale and eight specific program satisfaction scales acting as independent variables. Tolerance and independent F-values were set at .001 and .01



Table 1.
Intercorrelation Matrix: Enlisted Data

	$\overline{\mathbf{x}}$	SD	Career intentions	Pride in the Army	Superior support	Personal job involvement	Self-sacrifice for mission
Career intentions'		• :					
ride in the Army			.014		e- .1		<u>,</u>
Supervisory support		, - :	.008	1.135			
Personal job involvement	. · •		. 047.	.165	.083	• •	2
Self-sacrifice for mission			.015	.237	.074	.190	3
outy environment		:	.044	.063	001	007	.060
eneral program , ? satisfaction		a	. 247	.007	009	001	.004
ledical services	15.590	4.972	.141	.018	.024	.028	Z.018
roop housing	10.394	3.872	.200	007	.014	.032	.018
rts a nd crafts	-5'.964	1.693	.089	.029	.024	.022	.003
amily housing;	7.069	2.588	.195	013	.010	.046	013
ost transportation	-4.154	1.953	.104	025	036	, 1024	-:017
ubstance abuse programs	-5.368	1.954	.170	001	016	008	006
hild ca r ē	-5,131	1.846	.142	.078	010	067	.047
etirement benefits	4.949	1,947	.104	011	.005	.036	.013

For standardized scales (computed by exact method) mean is approximately zero and standard deviation approximately one.

Table 1 (Continued)

	Duty envi- ronment	General program satis.	Medical services	Troop housing	Arts and crafts	Family housing	Post transpor- tation	Sub abuse programs	Child care
areer intentions	*		· · · · ·			ē		•	
ride in the Army	• • • • • • • • • • • • • • • • • • •				•		₹ f Logana		
upervisory support		. (. (
ersonal job involvement	, , , ,				•	Y.		,	
elf-sacrifice for a			4.						,
uty environment		e e e				100 miles	•		
eneral program , satisfaction	.044		Ī				~ '	•	· -
edical services	028	175	Ā	14 14**120		(•
roop housing	=.021	.152	377			N %	•	•	•
res and crafts	.025	.177	.367	319					
amily housing	.017	:112 ,	.432	.499	.262	1		j	
ost transportation	=.035	.178	.340	.336	.266	338	,	***	
ubstance abuse	.029	.530	.321	.376.4	÷ .390	. 33 <u>.</u> 8	397		
hild care	.008	195	.4 2 9	.529	.471	445	.427	405	
etirement benefits	=.003	.215	.396	.357	4.316	.339	.320	354	.418

ote. For standardized scales (computed by exact method) mean is approximately zero and standard deviation approximately one.

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Table 2

Intercorrelation Matrix: Officer Data

	x <u>sd</u>	Career in- tentions	Pride in the Army	Superior support	Personal job in- volvement	Self-sacri- fice for mission	Duty envi- ronment
Career intentions				: 			• • •
Pride in the Army		.597 <u> </u>		: 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
Supervisory support		.246	.119	· . · · · · · · · · · · · · · · · · · ·		=	
Personal job involvement		.159	.083 •	.064			, , , , ;
Self-sacrifice for mission		.211	172	.042	. 259		
Duty environment		.022	.033	007	.001	.009	
General program		.053	.098	.061	065	.061	′.039
Medical services	15.422 4.725	.124	,158	.168	- ,503.	006	.033
Troop housing	8.490 3.132	.094	139	.142	:046	.018	.038
Post trapsportation	903 2.762	015	020	010	063	066	.008
Substance abuse	5.218 1.830	 110	= 176 ₌	- 149	- 011	020	012
Arts and crafts	5.875 1.598	.079	,09 h	, 106	.055	.052	.047
Retirement benefits	-4.905 1.842	.147	.155	.123 3	003	.041	.030
Child care	€8.018 2.388	.097	i.110	.100	*.033	.05 3	.02
DYA	-5.510 1.640	.075	1.122	.113	.045	.055	.033
<u> </u>					<u> </u>		

For standardized scales (computed by exact method) mean is approximately zero and standard deviation approximately one.

Table 2 (Continued)

	General program satis.	Medical services	Troop housing		Sub- stance	Arts and crafts	Retirement benefits	Child care
Career intentions		,•	•	- , · .	-		•	
Pride in the Army		. :						
Supervisory support Personal job involvement	:	*					ë	
Self-sacrifice for mission			• .					
outy environment		, , =			;	. · ·		: }
General program satisfaction .			• ;	•	•			į
edical services	194	, <u>ē</u>	;	٠٠.	5	्र इं		. • 3
froop housing	.164	248		,				
Post transportation	036	044	.139	• •	<u> </u>		•	- 4
Substance abuse	-,222 .	248	237	038	4	-		
Arts and crafts	.827	.281	256	.042	276			
Retirement benefits	.179	.351	.273	.035	.229	:248		
hild care	.248	.324	. 286	.074	.244	.329	283	
ÄΫ́A	.614	304	327	122	:347	\:437	.295	388

Note. Foldstandardized scales (computed by exact method) mean is approximately zero and standard deviation approximately one.

2.3

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respectively. Results are shown for enlisted and officer samples in Tables 3 and 4, respectively. For officers, the Pearson correlation (from Table 2) reveals that the commitment factor of pride in the Army is much more highly associated with career intentions than is any other individual variable. The multiple regression reveals similar results. While four terms (pride in the Army, supervisory support, sacrifice for mission accomplishment, and personal job commitment, respectively) made statistically significant epotributions to total variance accounted for, pride in the Army accounted for about 12 times as much the que variance as the next highest variable. Further all three other variables together accounted for only 5%; (of a total of about 40%) additional variance.

For enlisted personnel, the variables with the three highest Pearson correlations, with career intentions (Table 1) were general program satisfaction, and satisfaction with troop housing. In the multiple regression these same three variables were the only ones to make statistically significant contributions to the variance accounted for in the dependent variable. These variables accounted for about 6%, 3% and 1% of unique variance, respectively.

There has always been much interest in the influence of monetary benefits on career intentions. Since a monetary benefits factor did not emerge from the programs/benefits data, these items were reexamined to assess which of them concerned monetary benefits. "Monetary benefits" were defined as any direct payments to service members with "no strings attached" (e.g., pay). There appeared to be only three such items. These were satisfaction with pay, reenlistment bonus and retirement pay. However, officer and enlisted data already contained a retirement benefits factor which had been determined to have little relationship to career intent. Also, satisfaction with reenlistment bonuses was not applicable for officers. Thus, for the officer sample the single item pay (scored as described in Appendix B) was added to the regression equation predicting career intent. (The simple Pearson correlation between pay and career intent was 19. This is much smaller than the correlation between pride in the Army and career intent (.60).) When considered along with other predictors of career intent, it did not make a statistically significant contribution to the variance in career intentions.

For enlisted personnel, satisfaction with pay and reenlistment bonuses were added to the regression equation attempting to "predict" career intentions. The simple correlation between pay and career intent is .24 while the correlation between reenlistment bonuses and career intentions is .17. The first correlation compares quite favorable with the simple correlation between general program satisfaction and career intentions (.25). When included along with the other predictors of career intent, satisfaction with pay becomes the second best predictor of career intent, accounting for 4% of the variance, as opposed to 6% for general program satisfaction. Satisfaction with reenlistment bonuses also makes a statistically significant contribution to the variance, accounting for about one-half of one percent additional unique variance.

Table 3

Multiple Regression on Career Intentions: Enlisted Data

Variable -	Simple <u>r</u>	Multiple r	Multiplē <u>r2</u> .	% unique variance accounted for	Stepdown <u>F</u> <u>P</u>
General program satisfaction	=,247	.247	.0612	.0612	21.85
Family housing	195	300	.0897	.0285	4.8601
Troop housing	200	. 314		.0087	4.10



Multiple Regression on Career Intentions: Enlisted Data

Variable <u>-</u>	Simple <u>r</u> ;	Multiple r	Multiple <u>r2</u> ,	% unique variance accounted for	Stepdown $\bar{\underline{F}}$ $\bar{\underline{P}}$
General program satisfaction	= .247.	.247	.0612	.0612	21.8501
Family housing	195	.300	.0897	.0285	4.86
Troop housing	200	. 314		.0087	4.10

25





Table 4

Multiple Regression on Career Intentions: Officer Data

iriable	Simple <u>r</u>	Multiplē <u>r</u>	Multiple <u>r2</u>	<pre>% unique variance accounted for</pre>	Stepdown	$\frac{\tilde{\mathbf{p}}}{2}$
ide in the Army	- .597	.597	.3566	.3566	451.59	.01
pervisory support	246	.622	3875	.0312	43.91	.01
If-sacrifice for mission accomplishment	n -:211	.631	.3987	.0112	10.69	.01
ersonal job commitment	159	*.636	.4045	.0058	8:96	.01

Factor analysis of the items concerning attitudes toward the Army (commitment) revealed four similar factors for both officers and enlisted personnel. Specifically, these were pride in the Army, supervisory support, personal job commitment and self sacrifice for mission accomplishment. Detailed information on these factors and how they were determined is reported in Appendix B.

Factor analysis of the items concerning duty environment revealed one factor for both samples. This factor is further described in Appendix B also.

When items concerning Army programs and benefits were factor analyzed, a large general factor emerged for both officer and enlisted samples. After this large general factor was removed, further analysis suggested that officers and enlisted members saw Army programs/benefits as falling into eight categories, seven of which were quite similar for both officer and enlisted samples. These were: medical services, troop housing, post transportation, substance abuse programs, arts and crafts facilities, retirement benefits and child care services. The eighth factor was dependent youth activities for officers and family housing for enlisted personnel. Detailed information on the composition of these factors and how they were determined are given in Appendix B.

DISCUSSION

Results suggest that the factors comprising career intentions, commitment, duty environment, general program satisfaction and seven of eight specific program satisfaction factors are similar for officers and enlisted personnel. This suggests that both groups of military personnel, when thinking of such concepts as commitment and satisfaction with Army programs/benefits, see these concepts as being composed of similar dimensions. This is useful information to people concerned with these programs, since it tells them that both groups "see the world" similarly. This does not mean that officers and enlisted personnel have similar levels of satisfaction on these dimensions, however. In fact survey data on various topics as well the current data suggest that officers generally report higher levels of satisfactions than enlisted members.

The large general satisfaction factor emerging for both groups is of considerable interest. This suggests that when soldiers examine programs/ benefits they may focus on particular families of them per se as much as they form an overall impression on the extent to which the Army generally satisfies their needs for services and benefits. It may be important to influence enlisted servicemembers' impressions that in its human resource programs and entitlements the Army concretely shows that "it takes care of its own," since for them this general factor is the one most related to career intentions (assuming that satisfaction with benefits/programs influences career intentions rather than vice versa).

Another finding is that more of the variance in career intentions could be `explanged for the officers than for the enlisted members. The four commitment a variables, which were the only ones to make statistically significant

contributions to the explained variance in the officer sample accounted for 40% of the variance in career intentions. About 35% of the variance was explained by pride in the Army alone. However, for enlisted members, the three variables concerning satisfaction with programs/benefits in general and satisfaction with housing, which were the only ones to make statistically significant contributions, explained only about 10% of the variance in career intentions. This may be because officers are a more homogenous group in terms of education, socioeconomic status, etc., than enlisted personnel, so there are less error variances to contend with.

Further, different factors appear to be related to career intentions for the two groups. For the officers, attitudes toward the Army (commitment) and in particular pride in the Army are highly associated with career intentions, while other factors have less impact. For enlisted personnel, general program satisfaction (possibly the feeling that the Army takes care of its own or not) is most highly associated with positive career intentions, while satisfaction with pay and housing are also associated with career intentions. These findings are in contrast with the previous literature, where duty environment was found to have the strongest relationship to career intentions. Numerous differences, such as types of survey questions asked, could account for these discrepant findings.

If one is willing to assume that the independent variables influence career intentions, rather than vice-versa, these findings suggest that different strategies may be needed to retain officers and enlisted members. For example, in order to retain officers Department of the Apply level decision makers may wish to consider_developing programs to maintain pride in the Army, such as public relations efforts to enhance the Army's prestige among the general public. An example of this would be portraying the Army in advertising as a defender of the nation, rather than a place to get training (so one could then get a really "good" job. However, it is possible that pride in the Army is not influenceable by public relations efforts but is a reflection of the extent that the Army is perceived to be used by Congress and the President as an instrument of legitimate national policy. For enlisted members, it would appear that different initiatives are needed. For example, preventing erosion of medical and retirement benefits might enhance satisfaction with Army programs and benefits in general. Increasing the <u>availability of family housing and quality of troop housing (barracks) could</u> increase satisfaction with family and troop housing, the other two factors slightly but reliably related to enlisted member's career intentions. course, all these efforts cost money, but if they do in fact enhance retention, they will to some extent pay for themselves in recruitment and training costs, plus the intangible of increased combat readiness by having a more experienced force.

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IFE SURVEY INSTRUMENT

ASSESSMENT OF QUALITY OF LIFE

PREPARED BY

OFFICE OF

THE DEPUTY CHIEF OF STAFF FOR PERSONNEL

HEADQUARTERS, DEPARTMENT OF THE ARMY

35

This section contains a variety of questions about you. Your answers to these questions will help us in organizing the information you provide us in Sections B and C of this questionnaire to enable us to invest money and manpower for those items that are most important to you. Please provide your best possible answer to each question by blackening the appropriate response on items 1 through 18 of your answer sheet. Do not write your name and social security number anywhere on the answer sheet or questionnaire.

- 1: What is your sex?
 - Male
 - B: Female.
- 2.. What is your highest level of education?
 - A. Non-high school graduate
 - B: GED
 - €. High school graduate
 - D. Some college
 - Bachelor degree or higher
- What is your grade?
 - E1 E4 A.
 - B. E5 - E6
 - C: E7 - E9
 - W01 CW4 D:
 - E: 01 - 03 .
- 4. How long have you been in the Army?
 - A. Less than 6 months
 - B. At least 6 months, but less than 2 years -

 - C. At least 2, but less than 6 years
 D. At least 6, but less than 10 years
 - E: 10 years or more
- 5. How long have you been at this post?
 - A. Less than 6 months
 - B. At least 6 months, but less than 1 year
 - At least 1 year, but less than 2 years
 - 2 years or more
- 6. How many dependents do you have for whom you provide over half of their support (not counting yourself)?

 - 3 .
 - 4 or more

7. How many overseas tours of duty have you had? (Includes: Vietnam; Korea; Germany, Alaska, Hawaii.) B : .1 €. · 2 4 or more 8. What is your marital status? 'Single, never married Married B. -Legally separated D. Divorced (annulled); not remarried Widow or widower, not remarried 9. If married, is your family with you? A. Yes, my spouse is active duty military Yes, my spouse is civilian No, my spouse is active duty military D. No, my spouse is civilian E. I am not married 10. What is your racial/ethnic group? Α. B1 ack В. White A race other than Black or White 11. What type of unit are you in? A. Combat (Infantry, Armar, Artillery, Air Defense Artillery) B. Combat Support (Engineer, Military Intelligence, Military Police, Chemical, Aviation, etc.) Combat Service Support (Administration, Aviation Maintenance, Mechanical Maintenance, Medical, Transportation, Adjutant General, Quartermaster, etc.) Other 12. Are you now working in your primary or secondary MOS/Specialty? Yes 13. What percentage of your time in the Army have you worked in your primary or secondary MOS/Specialty? Α. В. 21 - 40% C. 41 - 60%

D. 61 - 80% E. 81 - 100%

- 14. Is this your first enlistment or obligated four of service?
 - A. Yes
 - B. No
- 15. Where do you live?
 - A. On post in housing for unaccompanied personnel (BEQ, BOQ, barracks)
 - B. On post in government family housing
 - C. Off post in government-leased familiy housing
 - D. Off post (other)
- 16. Which of the following best describes your career intentions at the present time?
 - A. I plan to stay in the Army until retirement
 - B. I plan to stay in the Army beyond my present obligation but am undecided about staying until_retirement
 - . I am undecided whether or not I will-stay in the Army
 - D. I will probably leave the Army upon completion of my present obligation
 - E. I will definitely leave the Army upon completion of my present obligation
- 17. If I could get out of the Army right now
 - A. I definitely would not
 - B. I probably would not
 - C. I am undecided
 - D. I probably would
 - E. I definitely would
- 18. If you are thinking about leaving the Army, what is the most important reason why you would leave?
 - A. My duty_environment (job satisfaction, working conditions, supervisor, duties)___,
 - B. Living environment (BOQ, BEQ, barracks, family housing)
 - C. Post services (medical, dental, PX, commissary)
 - D. Compensation (pay, retirement, etc.)
 - E. I am not thinking about leaving the Army at this time

Section B

On the following items, please indicate your agreement or disagreement with seach statement by marking the response closest to your own feelings. The possible responses are shown below. Please mark your responses on the answer sheet.

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RESPONSES

- A. Strongly disagree
- B. Disagree
- Ci No opinion
- D. Agree
- E. Strongly agree
- 19. I would try to get out of being deployed to a combat zone if ordered to do so.
- 20. I don't care how well I do in the Army.
- 21. I am willing to do more than what is expected of me to get the job done.
- 22. I care about what happens to the Army.
- 23. It annoys me to work after normal duty hours.
 - 24. It "talk up" the Army to my friends as a good organization to belong to.
 - 25: Accomplishing the mission is more important to me than my personal comfort.
 - 26. I would rather work in the Army than anywhere else.
 - 27. If a relative on friend of mine were thinking about joining the Army, I would try to discourage him or her.
 - 28. I take a lot of pride in doing my job well.
- 29. I am glad that I decided to join the Army.
 - 30. I feel little loyalty toward the Army.
 - 31. I am proud to tell others I am in the Army.
 - 32. I am satisfied with my job in the Army. ...

- (19) A B C D (E
- (20), A B C D E
- (21) A B C D E
- (22) A B C D E
- (23) A B C D E
- (24) A R C D F
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- (28) A B C D E
- (29) A B C D E
- (30) A B C D E
- (31) A B C D E
- (32) A B C D E

ITEM

RESPONSES

- A. Strongly disagree
- 3. Disagree
- C. No opinion
- D. Agree
- E. Strongly agree
- 33. I have enough freedom to do my job the way I think it should be done;
- (33) A B C D E

34. My job in the Army is very important.

- (34) A B C D E
- 35. J My superiors praise me when I do a good job.
- (35) A B C D E

36. My superiors respect me as a person.

(36) A B C D E

Please answer questons 37 and 38 only if you are married:

- 37. My spouse is satisfied with the military environment.
- (37) A B C D E
- 38. My'spouse's attitude toward the Army will influence my decision to stay in the military.
- (38) A B C D E



Section C

Each year, the Army spends a lot of money on programs and services designed to improve the conditions under which you and your family live and work. It is important that the Army spend this money on things that you really need. In this section, we need to find out what programs and services you feel are important in terms of influencing your decision to stay in the Army and how satisfied you are with these programs and services. If married, please consider your spouse's feelings when answering the questions below:

Please read each, item carefully. Respond to each item in terms of where you are now stationed in the Army. IT IS POSSIBLE, THAT SOME OF THESE PROGRAMS OR SERVICES MAY NOT EXIST WHERE YOU ARE STATIONED. EVEN IF THEY DON'T EXIST, IT IS STILL IMPORTANT THAT YOU RATE EACH ITEM IN TERMS OF ITS IMPORTANCE TO YOU.

IT IS ALSO POSSIBLE THAT SOME OF THE ITEMS IN THIS SECTION MAY NOT APPLY TO YOU AT THIS TIME BECAUSE THEY CONCERN A SERVICE DEPENDENTS RECEIVE. EVEN IF YOU HAVE NO DEPENDENTS, PLEASE ANSWER THE QUESTIONS IN TERMS OF HOW IMPORTANT THIS ITEM WOULD BE IF YOU HAD DEPENDENTS.

Answer the following two questions about each item using the scale that's shown for each question.

FIRST QUESTION:

HOW IMPORTANT is this program or service to you and your family in terms of influencing your decision to stay in the Army?

- A. No opinion/Don't know about this item
- Definitely not important
- Probably not important
- D: Probably important
- Definitely important

NOTE: Apply the seale of importance to the "ODD_NUMBERED" items on your answer sheet and blacken the numbered circle that most accurately reflects your feelings. *

SECOND QUESTON: HOW SATISFIED are you and your spouse (if you have one) with the program you use or service you receive?

- Does' not apply
- Highly dissatisfied В.
- Somewhat dissatisfied
- Somewhat satisfied
- Highly satisfied

NOTE: Apply the scale of satisfaction to the "EVEN NUMBERED" items on your answer sheet and blacken the numbered circle that most accurately reflects your feelings.



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RESPONSES
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to_stay_in_the_Army? (EVEN_NUMBERED_ITEMS)
(ODD NUMBERED ITEMS)
A. No opinion/Don't A. Does not apply
know about this item B. Highly dissatisfied
B. Definitely not important C. Somewhat dissatisfied C. Probably not important D. Somewhat satisfied
D. Probably important E. Highly satisfied and the satisfied and th
E-' Definitely important
TROOP HOUSING
Maintenance/condition &
of my BOQ/BEQ/
barracks. (71) A B C D E (72) A B C D E
The privacy I have
in my barracks. (73) A B C D E (74) A 78 C D E
Physical security , ;
for my belongings. (75) A B C D E (76) A B C D E
Furniture in the
BOOS, BEQS, bar-
racks. (77) A B C D E (78) A B C D E
POST SERVICES/COMMUNITY
SUPPORT ACTIVITIES ,
On-post personal fin-
ancial planning (79) A B C D E (80) A B C D E
services. (79) A B C D E (80) A B C D E
Services I receive
from Army Community Services (ACS). (81) A B C D E (82) A B CへD E
Hours of operation
for the child care center on-post. (83) A B C D E (84) A B C D E
The fees I pay for use of the child care
center on-post. (85) A B C D E (86) A B C D E
The on-post child
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On-post services, for handicapped dependents.	(89)	ÄB		Ð.	E.	•	(90)	Ä	B	e C	D E	•	· .
POST SERVICES/COMMUN SUPPORT ACTIVITIES	<u> </u>					• ;		· · · · ·		1			¥
The on-post library(s).	(91)	Ā B	Ē	D	<u> </u>	1	(92)	Ā	Ř	C	D E	- _	<u>.</u>
The on-post gym- nasiums/physical fitness centers.	(93)	Ä B	: : C	Ď	Ë	÷	_ (94)_	Ä	Ë	€ 1	ĐĒ		6.
On-post Department of Defense depend- ent education for						,	(96)	آبر	Ē	C 1	D E	,	
Children. The on-post arts and crafts shop faciliti (auto craft shops, photo, ceramic, wood	es 🔀	A B	· <u>· · · · · · · · · · · · · · · · · · </u>	•					:			•	<u> </u>
working; etc.). ,	(97)	A B	C	D	<u> </u>		(98)	<u> </u>	В	<u>C, I</u>	<u>₹ . E"</u>		- .
The on-post arts and crafts services (auto craft shops, photo, ceramic, wood working, etc.).	- ,	Ä B	Ţ C	D	E		(100)	-A	B	, _EI	<u> </u>		•;
The on-post bowling	(101)	Ā B		D	Ē		(102)	Ā	Ē	C I	D <u>E</u>		

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ITEM	HOW IMPO terms of to stay (ODD NUM	in th	uencing e Army?) me	ser	vices I	_use?	n I wit	h the
	B. Def C. Prot D. Prot E. Defi	v_abou initel bably bably	t this y not i not imp	item importa portant int		Somewh	diss at di at sa	atisfie ssatisf tisfied	ā i ēā
POST SERVICES/COMMU SUPPORT ACTIVITIES	MITY ———	•			•		• :		,
The outdoor militar recreation faciliti (swimming pools, te nis courts, footbal and ball fields,	es n-	ĀB	$\ddot{\mathbf{C}}$ $\ddot{\mathbf{D}}$	Ē	(104)	Ā B	$\bar{\mathbf{C}}$ $\bar{\mathbf{D}}$	<u>-</u> ک	:
Club services (NCO, Officer, junior enlisted).	(105)	; Ä B	C D	E	(104)	ÄÄ	C D	£	
Equipment for dependent youth activities (balls, bats, football gear uniforms, etc.).		Ā B	Ĉ D	E E	(108)	ÄB	C D	E .	
Facilities for dependent youth activities (DYA) (DYA center, ball fields, swimming pools, etc.).	(109)	:. Ā	- C D	Ē	(110)	ĀB	Ĉ D	ĒŻ	
On and off post military trans- portation services.	;			E	(112)			Ē	
Transportation for my dependents to take them to and from military. facilities (PX,	74125	_ <u>*</u>	, , , , , , , , , , , , , , , , , , ,		71425				· ;
commissary, etc.).	(113)	ĀB_	C D	<u>E</u>	(114)	A' B	€ D	<u>E</u>	



RESPONSES .

ITEM.

HOW IMPORTANT is this in terms of influencing me to stay in the Army? (ODD NUMBERED ITEMS)

HOW SATISFIED am I with the services I.use? (EVEN NUMBERED ITEMS

- No opinion/Don't
- know about this item Definitely not important
- Probably not important Probably important **C** .
- E. Definitely important
- Does not apply
- Highly dissatisfied В.
- С. Somewhat dissatisfied
- D. Somewhat satisfied
- E. Highly satisfied

POST SERVICES/COMMUNITY, SUPPORT ACTIVITIES

Commissary service	es. (115)	Ä	В	<u>C</u>	D-	É.	•	(116)	Ä	В	С	D	Ë	
PX services.	(117)	ŗĂ.	В	E	Ð	Ε		(118)	Ā	В	Ē	Ď	Ē	-
On-post legal services.	(119)	A'	Ē	Ē;	, D	Ē		(120)	Ā	- B	Ċ		Ē	
on-post banking services.	(121)	Ä	B	c C	D	E	: •	(122)	Ā	B	C	D	E .	
On-post Credit Union services.	(123)	Ä	В٠	€	Ð	E		(124)	Ä	В	_T_	Ð	E	, .
On-post postal services (in-cluding APO overseas.	(125)		Ē §		, D	•	 	(126)	Ā	_ . B	Ē		; Έ	
On-post religious programs.	(125)	Ä				Ë		(128)	Ä	•	C		Ë.	
On-post alcohol abuse program.	(129)	-		C	Ð	В .		(130)	Ã	В	c	D	E	;
On-post drug abuse program.	į (131)	Ā_	 В	Ċ.	D	; Ē	<i>y</i>	(132)	Ā	B.	Ċ	D	E	•
On-post child abuse service.	(133)	Ä	В	C	₹ D	E.	· 	(134)	Ä	Ë	C	Ö	E	
On-post equal opportunity.	(135)	Ā	_ B	Ċ	D	Ē		(136)	Ā	Ē	Ē	D.	Ē	



ITEM

HOW IMPORTANT is this in terms of influencing me to stay in the Army?

HOW SATISFIED am I with the services I use? (EVEN NUMBERED ITEMS)

- A. No opinion/Don't
- Probably not important
- Probably_important
- Definitely important
- Ā. B. Does not apply Highly dissatisfied
 - Somewhat dissatisfied C.
- D. Somewhat satisfied
- E. Highly satisfied

EDUCATION

Tuition assistance for high school and			. 	• •			<i>)</i>		Ÿ				
college courses.	(137)	Ä	В	\mathfrak{e}_{-}	E.		(138)	A	B	C	, Ď	Έ	
Education center:					•			3			;		
ling, course of- > Merings, etc.).	(139)	Ā	B G	C D	E	;	(140)	Ā	В	C	D	É	J
The Veterans' Edu- cational Assistance Program (VEAP) (you get \$2 for every \$1		>				÷ .		,	1.		•		•
you save).	(141)	Ā	B (C D	E	, A:	(142)	Ā	В	_ <u>c</u> _	D	_⊕ Ē	
The off-duty high school completion program.	(143)	Ä	` В (C D	E		(144)	Ä	: B	Ċ	Ď	Ē	·
The Basic Skills Education Program (BSEP II).	(145)	Ä	B (-		- - -	(146)	ğ 4.	B.	E	Đ	Ę,	
Fully unded edu- cation benefits (GI Bill).	(147)	Á	ВС	D	Ē	•	(148)	; Ā	В	C	D	E	
DUTY ENVIRONMENT MOS/Specialty train-	9		4		-		• • • • • • • • • • • • • • • • • • • •			- •	:	•	
ing to help me do my		Ă.	в с		E		(150)	Ä	<u>B</u> .	<u>E</u>	Đ	E	د.
Equipment to help me do my job	(151)	Ā.	B C	. D	E		(152)	Ä	B	С	Ď	Ē	-



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HOW IMPORTANT is this in terms of influencing me to stay in the Army? (ODD NUMBERED ITEMS)

HOW SATISFIED am I with the services I use? (EVEN NUMBERED ITEMS)

- No opinion/Don't
- know about this item
 B. Definitely not important
- С. Probably not important
- Probably important Definitely important
- A. Does not apply
- Highly dissatisfied
- Somewhat dissatisfied
- D. Somewhat satisfied
- Highly satisfied

DUTY ENVIRONMENT

My working conditions.	(153)	Ā	Ē	Ē	D	; <u> </u>		(154)	À	В	Ċ	. <u>D</u>	Ē		<u>.</u>
Unit field training I participate in.	(155)	Ā	В	C	: D	E -		(156)	Ā	B	Ĉ	Ď	E		
Safety in my work environment.	(157)	Ä	g B	C.	D	E		(158)	Ä	₿	C.	D	Ε		· · · :
The assistance pro- vided by my unit's personnel adminis-	,	:	• ;					•		-		•		:	
tration center (PAC).	(159)	Ā	B:	Ĉ.	Ď	E		(160)	Ā	В	С	Ď	Ē		
The assistance pro- vided by my unit's supply administration center (SAC):		Ä	B	E	Ð		i ;	(1 <u>6</u> 2)	, ,,	B	E) ·	_E_	: : :	
Military Finance Services.	(163)	Ā	B	Ċ	P	Ē		(164)	Ā	B	Ċ	D	E		-
The civilian MP program.	(165)	Ā	B'	9) D	E	. •	(166)	Ā	B.	C	D	E'	Š	
The use of civilians instead of soldiers in details/duties such as grass cut.		-	,			>/ 	٠٠٠	i and					, St	; ;	
ting, maintenance of grounds and security guard.		Ā	; B.	C	D	Ε.		(168)	A	В	С	D	E	•	·

ITEM HOW_IMPORTANT #s this in HOW SATISFIED am I with the terms of influencing me services I use? to stay in the Army? (EVEN/NUMBERED / I TEMS) (ODD NUMBERED ITEMS) No opinion/Don't Ä. Does not apply know about this item Highly dissatisfied B. `€. Somewhat dissatisfied ₿. Definitely not important Probably not important * С. D. Somewhat satisfied Probably important Highly satisfied E. Definitely important DUTY ENVIRONMENT The leadership/supervision I receive. (169)₹B (170)My job satisfaction. (171)(172)RETIREMENT BENEFITS Retirement pay (173) Retirement benefits other than pay (medical services, PX, commissary). (175)(176)C D

Section D

The questions in this section are designed to give you the change to tell us what you think about items that may or may not have been covered adequately in Sections A-C of this questionnaire. Please write your answers to these questions on the answer sheet provided with this questionnaire.

QUESTIONS

- 1. What are the three things I like best about the Army?
- 2. What are the three things I like least about the Army?

APPENDIX B

DERIVATION OF THE VARIABLES

MILITARY RELATED ATTITUDES

The items used to measure military related attitudes in this research were items 19 to 36 (see Appendix A). Items 19, 20, 23, 27 and 30 were reverse-scored (e.g., A=5, B=4, etc.) so that the higher the score, the more positive the attitude toward the Army. Separate principal components factor analyses for officer and enlisted samples on these commitment items revealed that the eigenvalues dropped below 1.00 after four factors for both groups. Thus four factors were retained for varimax rotation. The four factor rotated solutions for enlisted and officer commitment (attitudinal) data, plus the total item variance accounted for by each factor, are presented in Tables 5 and 6, respectively. Examination of items loading greater than .40 on a factor suggests that both officer and enlisted commitment data contain four similar factors. These are pride in the Army (e.g., "I talk up the Army to friends as a great organization to belong to"), supervisorly support (e.g., "My superiors praise me when I do a good job"), personal involvement in the job (e.g., "I take a lot of pride in doing my job well"), and self sacrifice for mission accomplishment (e.g., "I would try to get out of being deployed to a combat zone if ordered to reverse-scored).

In addition to the above (subjective) comparison of officer and enlisted commitment factors, an empirical comparison was also made. A "coefficient of congruence" was used to compare the factor solutions, since the same variables were used in two independent samples (Harmon, 1967). The coefficient of congruence is similar to a Pearson r in that it can fange from +1.00 to -1.00 (i.e., a perfect_positive or inverse relationship). [A coefficient of congruence of +.90 or more is generally considered sufficient to establish good factor congruity (Mulaik, 1972, p. 355). Coefficients of congruence between commitment factors for officers and enlisted are presented in Table 7. Examination of coefficients on the diagonal reveals that the factors possess convergent validity; that is, officer and enlisted factors with the same name are quite highly related empirically. Inspection of offdiagonal coefficients suggests that these factors also have discriminant validity; that is officer and enlisted commitment factors with different names are less highly related than officer and enlisted factors with the same name.

Duty Environment

This concept was measured by the five even-numbered items 150 to 158 (see Appendix A). An "A" response (does not apply) was scored as missing while responses "B" to "E" (highly dissatisfied to highly satisfied) were scored one to four, respectively.

Separate principal component factor analyses of the duty environment, items for both officers and enlisted samples revealed only one valid factor for each sample. Rotation was thus unneeded. Factor loadings of the duty environment items for both officer and enlisted samples, as well as percentage of total item variance accounted for by these factors is shown in Table 8. The coefficient of congruence between these two factors is 1999.



COMMITMENT VARIMAX FACTOR LOADINGS: ENLISTED

:		Pride in the Army	Supervisory Support	Coumitment to job	S.S. for mission accomplishment
V19	Willingness to deploy	. 137	.021	. 149	
V2O	Attitude toward performance in the Army	.071	:135	. 386	.296
V21	Willing to do more than expected	.126	.070	.639	μ .ν
ŶŹŹ	Care what happens to Army	.207	.063	5 <u>1551</u>	
VŽ I	Annoyance at working after hours	.193	.131	.049	
, V24	"Talk up" the Army to friends	-679	.212	.206	- 1963.
V25	Importance of "accomplishing the mission"	. 29 <u>8</u>	. 152	.328	120
Ÿ26	Rather work in Army than anywhere	<u>.571</u>	.204	.084	.221
¥27	Discourage relative from joining Army	.494	. 150	. 130	.246
¥28	Pride in doing job	128	. 159	<u>.576</u>	1007
ŸŹŸ	Glad I joined Army	.548	7252	. 356	.226
A 30,	feel little loyalty to Army	.121	.042	. 187	.171
ŶŦŦ	Pride in the Army displayed to others	.535	.248	371	150
V 32	Satisfaction with Army job	.316	<u>.519</u>	. 157	1100.00
V33	Freedom to do job the way ! fee!	. 196	.554	.064	3位。 3位10 1 4
Ÿ 34	Army job is important	.243	.320	.363	
V.35	Superiors praise me for good job	.110	<u>.670</u>	.092	.147
v 36	Superiors respect me as person	. 128	<u>.121</u>	. j	, 165 ,
	% of total item variance accounted for	11:67/	11.18	10.5%	6.12

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TABLE 5
COMMITMENT VARIMAX FACTOR LOADINGS: ENLISTED

:		Pride in the	Supervisory	Counitment	S.S. for mission
		Army	Support -	, to job	accomplishment
¥19	Willingness to deploy	. 137	, ,,021	.149	· <u>.4</u> 75
V20	Attitude toward performance in the Army	.071	135	.386	.296
V21	Willing to do more than expected	. 126	070	.639	पूर्ण -
¥22	Care what happens to Army	.207	.063	- 3.553 S	. 1
ŶŹĴ	Annoyance at working after hours	193	(**) (**) (**) (**) (**)	.049	
V24	"Talk up" the Army to friends	-679	.212	.206	- F96 3
V25	Importance of "accomplishing the mission"	• 298 ·	:152	-328	520
Ÿ26	Rather work in Army than anywhere	571		.084	.221
¥27	Olscourage relative from joining Army	494	.150	. 130	.216
¥28	Pride in doing job	.128	. 159	<u>.576</u>	1007
ŸŹŸ	Glad I joined Army	.548	.252	.356	
A 30,	Feel little loyalty to Army	. 121	.042	. 184 🔻	.iii.
¥31	Pride in the Army displayed to others	.535	.248		150
¥32	Satisfaction with Army job	.316	~ , <u>519</u>	. 157	110.
¥33	Freedom to do job the way ! fee!	196	<u>.554</u>	.064	·
Ÿ34	Army Job is important	.243	.320	.363	OND.
V-35	Superiors praise me for good job	.110	<u>.670</u> .	.092	.147
V 36	Superiors respect me as person	.128	.127	190	. 165
	% of total item variance accounted for	11:6x2	ii;i x ,	10.5X	S. 3.
		3 .	î •	🖫 ે ત્રસ્	

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		Pride in the Army	Supervisory Support	Commitment to job	Self sacrifice for mission accomplishment
'A18	Willingness to deploy	. 167	.043	,200	.491
V20.	Attitude toward performance in the Army	.058	, 100	.201	
V2	Willing to do more than expected	068	.071	.0119	,130
V27	Care what happens to Army	.150	.067	-554	• , 1500 •
Î VÂS	Annoyance at working after hours	.241	.094	160	,254
V24	"Talk op" the Army to friends	<u>.691</u>	.152	.090	. 165
V25	Importance of "accomplishing the missio	ñi 273	.076	. 329	an a
¥26	Rather work in Army than anywhere	<u>.620</u>	.100	.060	.151
Ÿ27	Discourage relative from joining Army	. <u>.562</u> ;	.155	.078	.210
V2R	Pride in doing job	120	.120	.524	.116
V29	Glad 1 Joined Army	<u>.571</u>	.222	.270	.270 3
ÿ 30	Feel little loyalty to Army	.238	,020	" 190 ,	· 293 /
V31	Pride in the Army displayed to others	<u>.569</u> °	159	.255	.2i)4
1732	Satisfaction with Army Job	<u>-51</u> 17:	.418	,145	\$ 107
ÇÜ.	Freedom to do job the way I fee]	.312	<u>.538</u>	.070	- ,098
V34	Army Job is important	.330	.290	.298	1021
Ÿ35	Superiors praise me for good job	.134	677	.082	.776
V 36	Superiors respect me as person	. 125	<u>.736</u>	. 158,	i in in the second
•	1 of total item warrance accounted for	14.62	9.61	9.2 1	5.51

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Coefficients of Congruence

between Commitment Factors
for Enlisted and Officer Samples

		ENLISTED	•	
	Pride : in the Army	Supervisory Support	Personal Job Commitment	Self Sacrifice for mission
OFFICERS accomplishment		•		• •
Pride in the Army	-98 4	- 6 60	598	. 664
Supervisory Support	. 535	990	.464	.417,
Personal Job Commitment Self-sacrifice for	.565	.464°	.982	.620
mission accomplishment	.456	.296	.502	.941



Table 8

Duty Environment Factor Loadings

officers

V150	MOS/specialty training	.588
¥152	Equipment for job	.700
V154	Working conditions	.718'
V156	Unit field training_	.581
V158	Work environment săfety	.496

% of total item variance accounted for 39%

Enlisted -

V150	MOS/specialty training	.664
V152	Equipment for job	.729
V154	Working conditions	736
V156	Unit field training_	.605
V158	Work environment safety	.566

% of total item variance accounted for 44%

Program Satisfaction -

Satisfaction with Army benefits programs was measured by the evennumbered items 40 to 148, 160 to 168, plus 174 and 176 (see Appendix A). Scoring of responses was identical to that described previously in the duty environment section.

Separate principal compenent factor analyses were performed with officer and enlisted samples on items concerning satisfaction with various Army programs and benefits. Results showed a very large first factor for both officer and enlisted data. The eigenvalues for the first factor in both groups were six to seven times as large as those of the next largest factor and about twice as large as all the other factors combined. Loadings and percentage of total item variance for the first factor (called general program satisfaction) for enlisted and officer samples are reported in Tables 9 and 10, respectively. The coefficient of congruence for this factor in the two samples is .998.

Since this general factor was so large, it was decided to remove the general variance it accounted for prior to deriving specific program/entitlement factors.' Thus, the first factor of the principal components solution was removed and factor loadings on the other (eight) factors were retained for varimax rotation. The eight varimax factors made intuitive sense for both officer and enlisted samples. Item loadings on these factors, and percentage of total item variance accounted for by these factors, for the enlisted and officers samples are presented in Tables 11 and 12 respectively. Inspection of underlined loadings (corresponding to items which seem to best define the factor) reveals seven factors which are similar for both officer and enlisted samples. These factors are medical services, troop housing, post transportation services, substance abuse programs, arts and crafts facilities, retirement benefits and child care services. The eighth factor was dependent youth activities for officers and family housing for enlisted personnel.

Coefficients of congruence between the item loadings for these factors for the officer and enlisted samples are reported in Table 13. Examination of the coefficients on the diagonals show that they are always the highest (in absolute value) of any in the column, indicating that officer and enlisted factors with the same name are more highly related than officer and enlisted factors with different names. However, only the coefficient for medical services is above .90, although the coefficients for six of the seven factors (all but post transportation services) with the same name in both samples were above 7.70.

The last factor listed for both samples does not match. However there seems to be a weak correspondence between the dependent youth activities factor for officers and the arts and crafts factor for enlisted personnel. Also, the family housing factor for enlisted personnel has some relation to the officers' troops housing factor.

Career Intentions .

Service members' career intentions were measured_by items 16 to 18_(see Appendix A). For items 16 and 17, responses "A" to "E" were scored as five to one respectively. For item 18, reponses "A" to "D" were scored as zero while "E" was scored as one.

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GENERAL PROGRAM SATISFACTION FACTOR LOADINGS:

		ę ·
₩40	Pay satisfaction	.385
V42	Like ability to take dependents overseas free	.412
V44	Reenlistment bonus (enlistment only)	.354
V46	Medical facilities	.509
V48	Medical services I receive	.524
¥50	Dental facilities	.512
V52	Dental services I receive	.530
V54 _.	Dependent's medical services	540
V56	Dependent's dental services	.510
· V58	CHAMPUS money received for health care	493
V60	Housing Referral Office services	.517'
v 62	Government housing provided	.519
V64	Condition of government housing provided	.516
V66	Off-post leased housing	.494
۷68	Quartermaster furniture ,	- . 572
¥70	Unaccompanied personnel on-post quarters	.489
V72	Maintenance of BOO/BEO, barracks	.499
V74	Privacy in barracks	·466
V.76	Physical security for belongings	489
٧78	Furniture in BOQ/BEQ, barracks	.516
V80	Financial planning services on-post	.591
V82	Army Community Services	. 588
V84	Child care center hours	.637
V86.	Child care center fees	.618

Table 9 (CONTINUED)

A88	Child care center	693
V90	Services for handicapped dependents	.736
V 92	Library (ies)	.529
V94	Physical fitness centers	.571
V.96	Department of Defense dependent education .	.683
V98	Arts and Crafts facilities	; .6 02
۷100	Arts and crafts services	, 608
V102	Bowling alleys	.539
V104	Outdoor recreation facilities	.585
V106	Club services	.532
V108	Dependent youth activities equipment	.660
V110	Dependent youth activities facilities	.616
V112	Military transportation services	531
V114	Dependent's transportation to/from military facilities	.511
V116	Commissary services	.600
V118	PX services	.585
V120	Legal services	.546
V122	Banking services	.548
V124	Credit Union services	.493
V126	Postal services	.498
128	Religious programs	.500
/130	Alcohol abuse services	.589
/132	Drug abuse program	.631

		(CONTINUED)			
V134	Child abuse services	*	-	686	
V136	Equal opportunity	1.8	• •	·576	/
V138	Course tuition assistance		, _	.581	ŀ
V140	Education center services			.584	f
, V142	Veterans Educational Assi	stance Program		578	• '
V144	High school completion pr	ogram		.612 _	
V146	Basic skills education pr	ogram:		.620	i.,
V148	GI Bill .	-	.•	.502	
V160	Personnel Administration	center services		.501 .	
V162	Supply administration cen	ter assistance	•	.516	•
V164	Military Finance Services		n .	549	
V166	Civilian KP program			.362	
V168	Use of Civilians instead	of soldiers	<i>.</i>	.336	
V174	Retirement pay		**************************************	.527	
V176	Other retirement benefits			.522	
% tot	al item variance accounted	for .		30.2%	

GENERAL PROGR	AM SATISFACTION FACTOR	s LOADINGS: OFFI	Ç
V40 Pay sathsfaction		.340	· ·
V42 Like ability to ta	ke dependents overseas	free .361	
V44 Reenlistment bonus	(enlistment only)	.336	
V46 Medical facilities		494	
V48 Medical services	receive	504	
V50 Dental facilities		 477	
V52 Dental services I	receive	.479	
V54 Dependent's medica	1 services	. 514	·
V56 Dependent's dental	services	· 441	- •
V58 CHAMPUS money rece	ived for health care	.452	
V60 Housing referral of	ffice services	480	
y-62 Government housing	provided	.492	٠
V64 Condition of govern	nment housing provided	.530	
V66 Off-post leased how	using	.496	
V68 Quartermaster furni	iturė	/ . 503	
V70 Unaccompanied perso	onnel on-post quarters	.454	
V72 Maintenance of BOQ/	BEQ, barracks	.460	
V74 Privacy in barracks		.414	•
V76 Physical security f	for belongings	.468	
V78 Furniture in BOQ/BE	Q, barracks	¥ .472	
V80 Financial planning	services on-post	.534	
V82 Army Community Serv	rices	.504	
V84, Child care center h	vours , 📆	.544	
V86 Child care center f	ees	. 475	•

(CONTINUED)

887	Child care center	<u>-</u> 535
V90	Services for handicapped dependents	.620
V 92	Library (ies)	.474
V94	Physical fitness centers	.50/9
V96	Department of Defense dependent education	.594
V98	Arts and crafts facilities	-547
V100	Arts and crafts services .	. 565
V 102	Bowling alleys	.520
V104	Outdoor recreation facilities	.558
V106	Club services	.457
V108	Dependent youth activities equipment	,631
V110	Dependent youth activities facilities	.618
V1 1 2	Military transportation services	496
V114	Dependent's transportation to/from military facilities	499
¥116	Commissary services	.549
V118	PX services	.560
V120	Lēgāl sērvicēs	.515
V122	Banking services	.492
V124	Credit Union services	446
V126	Postal services	.453
V128	Religious programs	.422
V130	Alcohol abuse services	.506
V132	Drug abuse programs	.545



(CONTINUED)

V134	Child abuse services	.553
.V136	Equal opportunity	.445
V138	Course tuition assistance	.492
V140	Education center services.	.539
V142	Veterans educational assistance program	.466
V144	High school completion program	.577
V146	Basic skills education program .	.552
V148	GI Bill 3	428
V160	Personnel administration center services	.443
V162	Supply administration center assistance	.472
∀164	Military finance services	457
V166	Civilian KP program	.335
V168	Use of civilians instead of soldiers	.308
V174	Retirement pay	.461
V176	Other retirement benefits	.475
% tota	al item variance accounted for	24.4%





Table 11

	•	Progra	m Satisfac	tion Facto	ir Loadings:	Enlisted		4		, · 2
	5	Medical Services	Troop Hous Ing	Arts & Crafts	Family Housing	Post Transportation Services	Abusē • Programs	Child Care Services	Rotirement Benefits	
VA	D Pay satisfaction	.086	.094	105	035	124	.091	.069	.230	: **1. ::
ÿ4.	2 Like ability to take dependents overseas free	.117	- 003	.030	013	.044	, 090 •	.034	020	5 3
V 4	1 Reenlistment bonus (enlistment only)	.057	.096	i 133	.041	020	.252	- 080	149	
74	6 Medical facilities	<u>.526</u> .	012	.037	.008	070	.053	, 0 25	.089	
Ÿ4	8 Medical services receive	.502	.001	.077	027	020	.089	.014	.062	No.
V 54	Dental facilities	.506	053	003	.033	.112	002	059	- 311	
V <u>5</u> 2	Pental services I receive	<u>.481</u>)	061	.016	.024	. 138	.001	.049	1144	
V5	4 Dependent's medical services	.472	013	.001	.048	072	168	.000	.094	
V50	5 Dependent's dental services	.426	.000	.044	.082	017	.026	04 (.070	
V5i	CHAMPUS money received for health can	rē .225	.014	.054	.064	, KUU	.098 -	- 014	.157	· ·
V (1() Housing Referral office services	004	.005	.110	.375	.091	.036	, .00 0	· 1.129 / 5	
۷6,	Government housing provided	019	. 105	.176	.466	049	. 131		0/2	
V6/	Condition of government housing 5 provided	.019	.144	.170	426	vii	.099	.046	.011	
¥66	Off-post leased housing	.095	,000	128	.279	.044	.086	.040	017	: .
V 68	Quartermaster furniture	.038	.167	.074	.131	052	.U87	- 073	.069	
v 70	Unaccompanied personnel on-post quarters	017	.512	048	.0/2	.014	.066	.055	.Ú21	. '
Ÿ72	Maintenance of BON/7BEQ, barracks	023	<u>.519</u>	.011	.084	007	020	- (0)5	.021	
Ÿ 74	Privacy in harracks	012	.468	,112	.034	056	.073	041	.005	:
V/6	Physical security for belongings	006	1.376	.032	024	.020	006	- , 105	180.	66
¥78	Furniture in BOQ/BEQ; barracks	027	<u>*414</u>	- 025	.041	.025	015	118	.004	
Vino	Financial planning services on-post	048	080	.012	.062	086	.013	120	105	
V82	Army Community Services	113	- :048	019	.070	.212	016	 į į į	132	
		,,, ,,		1.	. 0			•		



		•	Progra	m Satisfac	tion Facto	r Loadings:	Enlisted		4		100
		. 3	Medical Services	Troop Hous Ing	Arts & Crafts	Family Housing	Post Transportation Services	n Abusé Programs	Child Care Services	Retirement Benefits	
•	V40	Pay satisfaction	.086	.094	.105	035	.124	.091	- 1069	.230	: *12 ::
	V42	Like ability to take dependents overseas free	.117	003	.öjö	013	.844	, Ü 9 Ü	.034	020	y * •
	V41	Recollstiment bonus (enlistment only)	.057	.096	i 133	041	020	.252	- 080	149	
	746	Medical facilities	_526	012	.037	.008	070	.053	- ,076	.080	
	V48	Medical services I receive	.502	.001	.077	027	- 020	.089	N 10.	.067	5.5.
	V50	Dental facilities	.506	053	003	.033	.112	002	019	- 311	
	¥ <u>\$</u> 2	Dental services I receive	<u>.481</u>)	061	.016	.024	.138	.001	.049	: 1144	
	V54	Dependent's medical services	.472	013	.001	.048	072	. 168	.iiiii	.U9Á	
	V56	Dependent's dental services,	.426	.008	.044	.082	017	.026	04 f	.070	
	¥58	CHAMPUS money received for health car	ē .225	.014	,054	.064	100	.098 -	014	.157	\$
	¥60	Housing Referral office services	- ,004	.005	. 1 10	.375	.091	.036	- ,007	- 129	
	AQ5	Government housing provided	019	. 105	.176	<u>.466</u>	:049	: 131	.031	072	
,	V64	Condition of government housing 5 provided	.019	. 144	.170	.426	uji	.099	.046	110.	,
	¥66	Off-post leased housing	.095	,000	. 128	.279	.044	.086	.040	017	: .
	89 A	Quartermaster furniture	.038	.167	.074	.131	• .U52°	.u87	- ,073	.069	•
	V 70	Unaccompanied personnel on-post quarters	U47	: CC :542	.048	.0/2	.014	.066	.055	.Ű21	
	Ÿ72	Maintenance of BON/7BFQ, barracks	023	.549	.041	.084	007	.020	- ,(x)5	.021	;
	Ÿ/4	Privacy in harracks	012	468	,112	,034	056	073	041	.005	= =:
	V/6	Physical security for belongings	006	+ 376	.032	024	.020	006	105	081	66
	¥78,	Furniture in BOO/BEQ, barracks	037	<u> 414</u>	025	.041	.025	015	118	.004	
	VNO	Financial planning services on-post	048	.080	012 [%]	.062	.086	.013	170	- 105	
	V82 ,	Army Community Services	113	048	019	.070	.212	016	III	132	
								7.0	•		

		Program	Satisfac	tion Facto	or Loadings:	Enlisted				
j.		Medical Services	Troop Ilous ing	Arts & Crafts	Family Housing	Post Transportat Services	ion <u>Abuse</u> Programs	Services	Retirement Henefits	
/* V84	Child care center hours	097	011	.040	.047	.008	.080	1.01	- 1049	•
· V86	Child care center fees	068	.068	.036	059	060	104	- , 416	019	
ŸŔŖ	Child care center		- ANB	.040	¿013	:018	810.	307	- ,057	
AND	Services for handicapped dependents	.015	.059	076	.059	ر روز (021 - 1	- :071	4:114	.0188	•
V92	Library(ies)	÷.iii	-,118	218	.020	~ ~26U	.260	071-	S 🔭 iii 🎒	1.
V94	Physical fitness centers	070	032	305	.039	.118	.118	-,015	.013	Ā
V96	Department of Defense dependent education	020	.036	- , 1 16	.004	° .096	.096	- 107	- Uliv	. 1
¥98	Arts and crafts, facilities	.035	070	508	120	062	.067	,000	061	·
;ÿ 100	Arts and crafts services	039	056	500	090	.000	.070	- ,0,10	-,051	
¥102	Bowling alleys	MÔ	100	295	.076 · .	.046	025	2008		
V 104	Outdoor recreation facilities	096 •	095	291	. F .016	3 021	.050	.1017	uiä	
y 106	Club services	079	- :019	075	.063	. <u>- 191</u>	.006	,019	.0.6	
V108	Dependent youth activities equipment	095	017	254	064	- , 159	004	, 181 -	- :018	٠.
ÿ110	Dependent youth activities facilities	- 961	- 056	7.252 2	004	- 180	026	, 144	066	
Ÿiiÿ	Military transportation services	014.	024	.038	.005	527	-'.ū35	- ,024	035	
V114	Dependent transportation to/from military facilities		020	2071	009	543	.015	1,077	(009	
₹116	Commissary services	047	181	014	.001	074	.016	7,000 7,5	186	
81,17	PX services.	025	186	-'.048	026'	099	.020	067.85	.181) /	477
V 120	Legal services	~.058	- 124	.037	078 🕌	.024	.002	.0.15	083' '	
Ÿ122	Banking services	015	.075	.032	048	7	, 028	∓©.011 ·	7.031	
V124	Credit Union Services	051	- 058	.035	-,040	075	.009	- (067)	- 3126	
V126.	Postal services	131	.111	- 025	055	.134	Feb	, 132	- "Ullik-	
		•	1 1			្ស៊ី <i>ធ្</i> ែក ស	14	į	68	
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		Progr	am Satisfa	ction Fac	or Loadings:	Enlisted			4.	
		Medical Services	Troop Hous Ing	Arts.& Crafts	Family Housing	Post Transporta Services	tion Abuse. Programs	Child Care Services	Retirement Benefits	• .
128	Religious programs	-:103	- 188	013 [*]	÷.041	· 151	218	.077	104	
130	Alcohol ahuse services	095	047	.048	064	- :006	560	.015	016	•
132	Drug abuse program	- [103	043	.060	032	019	<u>516</u>	(H)	.024	_
34	Child abuse services	048	063	.038	j;110	- 021	220	.013	.062	•
36	Equal Opportunity	- 169	.037	171	072	. ∓ ,U56 <u>`</u>	045	Štū.	- 073	, ,
38	Course tuition assistance	143	-, 143	.156	د. 297	.089	.089	 	s 7141 %	١.
40	Education center services	122	123	. í 12	292	.068	.082	A	. 1 19	Š
42	<u>Veterans</u> Educational Assistance. Program	. 104 ₋	· i 📆	171	224	.030	C 1969	-:026	.017	, :
44	High school completion program	198	-,116	122	278	. 134	.006	.200	131 .	
46	Basic skills education program	125	- 164	.076	- 2 ,218	104	r.01&		. 034	
48	GI Bill	084	115	.082	" -:175(ê	.076	.060	. 138	.077	
60	Personnel administration center services	033	-:010	2138	£2007s	٠٥٥ <u>٦</u>		218	.062	<u> </u>
62	Supply administration center assistance	048	.040	. 146	002	016	.024	243 . /	•U56,	()
54	Military Finance Services	036	007	. 156	~057	.037	.003	√ 4 is : •	032	
iĠ	Civilian KP program	.=.123	161	024	101	.030	- 166	(0)19	105	,
sil)	Use of civillans instead of soldiers	~:019 ,·	060	.036	.080	006	148	. 107	122	
74	Retirement pay	012	.035	.094	014	027	.066	.024	<u>-451</u>	
6	Other retirement benefits	.019	-;014;	.064	046	, 1018	• 2 .001	.019	3.490	
ì	of total tem variance accounted for	2.9%	2.6%	2.2%	1 2 9x	1.7%	1.6x	1.5%	1.5%	7

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•		Program	Satisfaction Factor L	oadings: Officer	S	•		
	Medic Service		Post Transportation Services	Substance Abuse Programs	Acts land Linafts Facilities	Retirement . Benefits	Care : Services	Dependent Yauth 'Artivities
¥40	Pay satisfaction .09	0 :090	030	.093	,030	262	.039	£.060*
	like ability to take dependents overseas free .08	0 .040	.055	.092	.083	132	;019	. 136
V44	Reenlistment bonus (enlistment only)	7 .019	.044	.184	ح 310.	007	.036	± .172
V46	Medical facilities	0038	137	• , .007	.022	.038	.046	, U25 .
¥48	Medical services I receive .54	0028	104	เข้าไ	.037.	- 016	* .0li	.005
V50	Dental facilities .53	<u>1</u> 099	.429	. 132	.001	.036	.094	.012
¥57.	Dental services receive .52	1099	,144	. 145	.020	.047	100	• tuln
V54	Dependent's medical services .52	3007	-1.122	015	.073	057	038	.000
4	Dependent's dental services .40	1 .008	006	.055	.087	Ŧ.U27	.016	.095
₹50 <u>.</u>	CHAMPUS money received for health care 19	ÿ .084	035	.059	.111	. 190	'üĮä	.129
V60	Housing referral house, services02	2 .121	.029	030	02B	7.035 ₹	045. j	.UIU
V62	Government housing provided00	.386	.025	.076	.026	čiö.	.016	063
VGA:	Condition of government	2 .368	.013	.069	100. 7	, 000	. 040	.ii
166	.01 QTT-post leased housing	1 .130	000	.058	.045	- 1058 -	-, 08.1	נֿפֿט.
v6n (Openformas ter furniture	270	.032	.079.	.039	004	1,097	.068
V 70	Unaccompanied personnel on-post quarters - 079		, - 041	.087		.012	.06ж	:019
V 72	Maintenance of BDQ/BEQ		2 - 1046	.043	.068	.005	.069	.053
¥74	Privacy in barracks	426	.014	.039	.094	.017	004	041
¥76 (a, < ;	Physical security for belongings	7 (*) (*) 1314	010	.053	.058	.054	.05%	- 014
V 78	Forniture in 800/BEQ.	.468	.019	. 1 06	Su		013	- 2051
. `	71	•			,	•		72
		,	, All	- .				

				Table 12 (conti	r Žhana		,		••
	4.								ş. <u>f</u>
		-Med fi Servi	al Troop	Satisfaction Factor I Post Transportation Services		Arts_and _Crafts Facilities	Retirement Benefits	Care	oendent Youth ivities
١	V80 ·	Financial planning services	010	.094	- 012	047	,091	- 1077	:061
,	182	Army Community Services12	o - 043	.233	066	110	.001	- (80	.081
		Chilld care center hours09	١,	.066	.097	.022	.027	386	.000
		Child care center fees		.077	:271	.000	. 172	363	102
		Child care center		.087	.140	004	.028	<u>575</u>	.000
	VÝÖ.	Services for handicapped dependents02		026	.083	092	.057	- :772	.070
	, va2	Library(les)05	3 - 101	.095	.087	163	.060	UZG	- 1082
		Physical, fitness centers04		017	.056	- 178	.051	.001	- 116
		Department of defense defendent education .02	9 .029	• 078	,070	- 105	011.	,	٧. او١
	Adu	Arts and crafts facilities '09	5059	.045 🛶 مَرْدُ جُ	2.072	568	047	,087	0X8 1
		Arts and crafts services .00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	062	, p69 · 1	646	. 198	109	004
	100	Bowling alley 5.12		010	014	207	047	023	232
۷	104	Outdoor recreation facilities	6065	062	.039	188	.060		342
Ì	106	Club services05	6 - 022	- 153	- :021	.026	(1031	- .₀••••••••••••••••••••••••••••••••••••	118
•	108	Dependent youth activities equipment12		084	.051	005	.014	.048	391
١	/110		34087	122	.006	010	.090	019	425
١	/112	Military transportation services19	52 -,023	417	001	.055	.208	.007	.153
	/114. 1114.	to/from military facilities	÷.017	<u>- 462</u>	021	, 103	.216	-1051	.210
	e. (116€	Commissary services 0	32 - 045	184	013	019	.068	28	082
,	7 1 1 1 E		11 - 053	155	. Pour	7029	039	000	082
	_1 _					: : :	•	. ,	
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ing and the second sec		Program	Pable 12 (cont) Satisfaction Factor		,		10111	h.	
	Medical Services	Troop *	Price Transportation		Arts and Crafts Facilities	Retirement Benefits	thild Care Services	Pependent Youth Activities	
) Legal services	030	₹.066	.043	.008	.019	.070	.030	027	
? Banking services	.034	053	, - +026	003	.057	.122	.023	-1016	y :
Credit Union services	- <i>j</i> 058	068	.041	028	.063	.061	-,004	- 1051	•
6 Postal services	059	- 115	069	004	.036	.066	2085	070	
Religious programs	045	-:015	eye.	117	.024-	104	- 1035	.052	
) Alcohol abuse programs		065	150	47.681	,000	.008 🎏	,050	- 1002	
? Drug abuse program	-:010	- :067	.128	680	.006	.024	, 0 74	.61 <u>8</u> .	ĺ
1 Child abose services	098	- :132	.032	342	.ü14	. 102	1006	, <u>, 121</u>	
Equal opportunity	092	1 16	.ŭ52 /	-: 174	:091	.087	.016 'i	,062 . س	-
Course Luition assistan	ce131	182	.196	.052	. 156	0/8	. 198	\$ 100 A	4
), Education center servic		201	134	.023	.095	.002	خ أنآ.	. (.091	•
Veterans Educational Assistance Program	096	151	.041	:046	. 134 · · · · · · · · · · · · · · · · · · ·	092	. 1180	2092	
4 High school completion program	145	- 186	.226	.007	.181	020	. 209 S	.080	
6 Basic Skills Education	,	3198	. 182	057	. 10	011	:167	.069, 🤏	.:
program		146	.087	.070	= 116	1 ज ़	7 . 161	.040	
O Personnel administration center services	7 ₹ UZB′	678	066	045	.040	. 115	.178.	.102	
2 Supply administration c assistance	enter - 066	058	044	054	:07 l	. i45	. 170	109	
1. Military Finance Service	es , 009	09152		015	.067	.026	055	.090	, .
6 Civilian KP program .	# A	-/124	=.061 · · · · · · · · · · · · · · · · · · ·	-,125	.041	.078	.02∫. ⊆	. 	
B Use of civilians instead		.077	1 - 2:114	/082	.046	.054	•.ello	. 185	•



	Deno	Table 12 (co		n ()		
	•	p _ Post Transportat		Crafts and Facilities	. Rét Irement	thild tependent (Care Youth)
VI/4 Retirement pay	- 005 - 028	- 133	.029 🗧	3.18	- <u>.522</u> .0	.iiji7
VI/6 Other retirement benef	its 1 .005053	191	.022	.109	512 .0	1015
/ x of total Item variance acc	ounted 3.2% 3:1%	27.9%	2.3%	2.1X	1.78	1.5%
				· · · · · · · · · · · · · · · · · · ·		Ę
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Table 13

Coefficients of Congruence between Satisfaction with

Programs for Enlisted and Officer Samples

officers.	Enlisted Medical Services	Troop Ilous ing	Post Transportation Services	Substance Abuse Programs	Arts & Crafts Facilities	Retirement &	Little Laire - Sirivities	lousing
Medical Services	962	- 022	.086	:217 : :	.093	. 163	1047	;173
Troop s	.082	891	* =.051	.211	.155	.072	- 170	.455
Post Tr ans Services	j166	152	.673	242	,087	-:423	1005	- : 169
Substance Abu Programs	.211	- 199	.083	871	÷.043	.027	2711	, 154
· Arts & Crafts Facilities	.069	.113	- 170	BOO.	830	lut 🚓	, iii	070
Retirement Unnerits	1157		261	-,213	- 20 <u>6</u>	724	• ,70 m. - ,70 m.	,079
Child Care . Scryices	.002	094	.117	107	- 128	014	- 1127	74,3 42
Öependent Yau Activities }	th 👶 	.030	014	. 099	643	, 138	- 1099	.007

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Table 13
Coefficients of Congruence between Satisfaction with
Programs for Enlisted and Officer Samples

	Enlisted	$\frac{1}{k_{\parallel}} = \frac{1}{k_{\parallel}}$		= - ()		• • • • • • • • • • • • • • • • • • •		-
Officers"	Medical Services	Troop Ilous ing	Post Transportation Services	Substance Abuse Programs	Arts & Crafts Facilities	Retirement &	, thild take , Smylies	lousing
Medical Services	.,962	022	.086	217	.093	. 163	, 1047	,1/3
Troop i	.082	891	- ,051 - ,051	211	,155	.072		.455
Post Tr ans Services:	j166	152	.673	242	,007	423	005	•, [69
Substance Ab Programs	use: .211 ·	- 199	.083	.871	÷.043	.027	- 27ii	, 154
· Arts & Craft Facilities	\$	iii	- 170		.830			070
Regisement Dinielits	1.157		261	7,213	205	724	0.50	,079
Child Care Scryices	.002	094	,111	.,107	.128			4,342
Vegendent Yo Activities	ūth 🎄 .138 ri	.030	014	.099	.643	, 138	(099	.007

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Multiple regressions were performed regressing each item measuring career intentions against the other two items. The squared multiple correlations of each variable with the other two variables were then entered on the main diagonal of the correlation matrix. Separate principal components factor analyses for officer and enlisted samples were then performed. These analyses revealed that the items comprised one valid factor in each sample, making rotation unnecessary. Item loadings and percentage of total item variance accounted for by career intention variables for officer and enlisted samples are reported in Table 14. The coefficient of congruence for the career intention factors in these two samples is .999.

In order to determine the relationship of military attitudes (commitment), duty environment, general program satisfaction and specific program satisfaction with career intentions, scale scores were constructed for each of the above variables. For the four commitment factors, duty environment factor general program satisfaction factor exact method factor scores were computed for each respondent. That is, for each item on these scales, its factor score coefficient was multipled by its standard (z) score. This product was summed for all items on the particular scale. Missing items were replaced by the mean score; unless the proportion of missing scores for a respondent was over a certain level (never more than half) in which case respondent's score on that factor was declared missing. Due to the way the original responses were scored, the more positively soldiers responded to these items, the higher the resulting factor score.

For the eight program satisfaction factors a different method of computing the scale score was used. Here, for each of the items best defining a factor (underlined items in Tables 11 and 12) the raw score on that item was added to other item scores. Again, missing item scores were replaced by the mean for a respondent unless the proportion of missing data was too great. Then that respondent's score on that factor (scale) was recorded as missing.

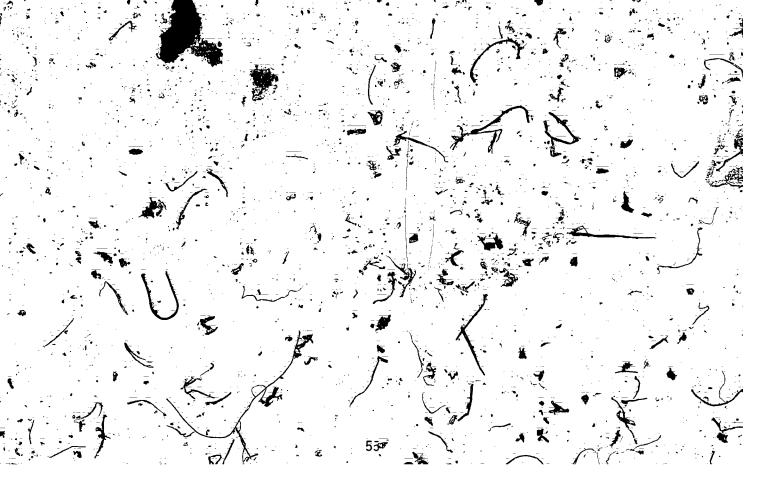
The reason why a different method was used to calculate scale scores for satisfaction with specific programs is as follows: The scales constructed by the exact method (four commitment scales, duty environment, general program satisfaction and career intention scales) seem to measure concepts. Thus it is appropriate for each item, and not just those items loading highly on the dimension, to contribute to its score. However, when measuring satisfaction with specific programs, one is measuring entities. Thus, it makes no sense for example, for satisfaction with retirement pay to be included in the scale measuring satisfaction with medical programs. Thus for these scales, only items dealing with the relevant programs were included in computing the scale score, as described above.

Table 14 Career Intentions Factor Loadings Off Cers

V16	Present career intentions		 .763,
¥17	Opportunity to leave Army		.779
V18:	Most important reason you'd	leave Army	.671
% of	total item variance accounte	ed for	54.6%

Enlisted

V16	Present career	intentions	·		4
¥17.,	Opportunity to	leave Army	•		.757
V18	Most important	reason you'd	Īēāvē Ārmy	<u>-</u>	.646
% of	totāl itēm vār	iance account	ed <u>f</u> or	* *	50,5%









Research Methodological and Statistical Issues

Beyond yielding interesting find mas in its own right, this research effort can be seen as a pilot to future layer igations of the relative importance of organizational attitudes and aman resource management programs in military cases interesting. in military career intention. : This project offers suggestions on experimental methodology and statistical concerns for future work.

Research Methodology Implications

The analysis and interpretation of the quality of Fife data suggest that several revisions of research methodology would aid future efforts on the topic. Recommendations can be classified into those dealing with the sampling technique and those which pertain to the survey instruments.

Sampling Considerations

If future investigations are performed at the Army-wide level of analysis the number of subjects could be greatly reduced. Assuming that the analyses would be multivariate in nature, include 178 questions and treat the data separately for officers and enlisted, figures of 1780 officers and 1780 enlisted (i.e., 10 subjects per variable) would probably be adequate. These subjects should be randomly chosen with no weighting on sampling parameters.

Should future efforts be designed to determine possible differential impacts of entitlements/services on various segments of the military, population with which the Army is particularly concerned, then these segments of the population should be more intensively sampled to permit specific analyses of their responses. Thus, if the army were particularly interested, in the retention of combat arms NCO's E3 or higher, a random sample of 1780 of them could be selected for the target group specific regression analyses. These data may also be used in the total Army sample if their responses are weighted downward by a factor based on the actual percentage of total respondents in the enlisted force who are at this category.

Spunploying a methodology of selecting more intensively from certain regments of the Army population obviously requires a decision before surveying to which segments will be considered individually 🚲

Survey Instrument Issues

content review of the questionnaire coupled with knowledge of the ical results of the survey suggests several ways in which this instruments, these observations are offered in the order that the items appear on the survey (see Appendix A

Response alternatives should be indicated by numbers rather than letters dealers the risk of key-punching errors. It is also important that the response alternatives fall on an equal interval scale to allow sees tive statistical analyses. So too, on items where subjects are able to give a precise numerical answer (e.g., items 3, 4, 5, etc.) this answer should be sought rather than a categorical response so that valuable information will not be lost



Since officers will also be using this form, response E to fight? should read "bachelor's degree" and response F should read "masters degree or ligher. Item 6 should define the term "dependent" as it pertains to eligibility for Army benefits. Item 8 responses might accommodate voluntary (not legal) separation as well as involuntary separation such as health reasons, hardship tour, etc. Item 10 should probably distinguish "Hispanics" as a separate ethnic group since they constitute a sizeable, identifiable minority group in the Army. Item 11 should ask the more precise nature of the unit rather than using the very general categories of combat, combat support, and compat service support. Somewhere prior to item 11 it would be helpful to ask the respondents about the primary military occupational specialty held. Finally, in section A a sixth alternative response should be offered at item 16 dealing with intentions to not complete obligated tour of service since it might aid in understanding the role of benefits, human resource management programs, and military attitudes in attrition. Other items in this section might include SQT scores, EER's, disciplinary incidents, etc.

It would probably be helpful to replace the ad hoc items of section B with some of the short standardized validated scales of military motivation and morale.

The list of benefits and services in section C should be reviewed to assure that particular ones are not oversampled or undersampled, thus biasing the factor structure. One might evaluate which benefits/services to include from the vadrage point of whether saldier-consumers see these as independent possible benefits and services or else scrutinize the items in terms of those the Army sets up as distinct, independent entities. The items in this section of the survey should be randomized so that these acts structure will be solely based on similar perceptions of respondents rather than on the physical placement of items on the questionnaire. Most importantly response option A for satisfaction and importance should be deleted since it is not on the conceptual dimension of importance or satisfactions. One might offer neutral alternatives such as "neither important nor unimportant" and "neither satisfied or dissatisfied." The advantage of the neutral point in increasing the number of response categories might well be disset by the dissadvantage of increasing central tendency response bias. Section C might also include as third judgment dimension dealing with amount of self-reported use of program entitlement. Subjects should be instructed to rate only programs which exist at their post or installation.

Lastly, if the pen-ended items of section D are to appear in return stayes they shall be asked before questions in section C if the responses of these items are designed to tap sponsaneous, "at-level," reactions.

Responses to these questions must be scaled in order to permit quantitative analysis. One technique for doing this is provided by Allen and Sheahun (in press).

Statistical Issues

Data from this project were analyzed using stepwise multiple regression techniques. In that multiple regression is an extension of the simple Pearson product moment correlation, it assumes similar characteristics of the databate extends these assumes to the case of a series of predictor variables rather than a single e. Hence, multiple regression assumes: that subjects

on the underlying distribution of all possible single predictor variables and combinations of predictor variables and the criterion variable are normally distributed; that all bossible combinations of predictors are linearly related to the criterion; and that the levels of single and compound predictors exhibit homogeneity of variance. Unfortunately as Bock (1976) notes "at the present time there is no practical method available for testing multivariate normality" and indeed the same thing might be said for the multilinearity and multiple aggression homogeneity of variance assumptions as well.

Nevertheless, it is possible to assess the extent to which the necessary, but not sufficient, requirements of the multivariate assumptions are met. Prior to assessing the assumptions of simple variable relationships, all variables were collapsed into score categories of one-half standard deviations from z = -3.00 to $z \neq 3.00$ with scores lower or higher than 3 standard deviations from the mean being categorized as -3.00 or +3.00 as appropriate.

Normality of Distributions

Frequency distributions on all possible predictors as well as the criterion were evaluated for normality by means of separate enl-squares. For the chi-squares, hypothetical frequencies of cells were determined from a table of percentiles of the standardized normal distribution. All variables were found to differ from normality at p 05 and, in fact, all yielded chi-squares significant at p 001; with the exception that the chi-square for enlisted medical services was at p 05 and enlisted pride in the Armys was at p 01.

Despite the fact that the variables were not normal is distributed, the likely effect of this violation of assumption was probably not serious since the strength of the regression equation is determined by F based on periothan one variable as thus subject to the Central Limit theolog. One of the normal to probably make the simple variable distributions more probably make the simple variable distributions more increasing the number of response alternatives to the questions. (Arrexamination of the actual shapes of the trequency distributions did not suggest any overall solution to the normality problem in terms of a consistent re-scaling of the scores given to various response all hatives.)

Linearity of Predictor-Criterion Relationships

The linearity of the relationships of simple predictors of the criterion was measured by computing F's contrasting the relational envillment relationship of each predicted with the cliterion. Levels of the predictor were the categories noted have but the cliterion was treated in its continuous, "raw" form (i.e. [without collapsing). F-tests for the curvilinearity of predictor-criterion relationships are reported at lables 15 and 16 for enlisted and officers respectively.

As well be ted from Tables 15 and 16, seven of the culvillear relationships were statistically significant at one 05 level perond their will near relationships. In all cases the Figure the lanear relationship was also significant and was much larger than the first the residual curvilinear



Deviations from Linearity of Single Predictors with Career Intentions: Enlisted Variable Pride in the Arm .973 10,2212 .4648 Supervisory support
Personal job involvement
Self sacrifice for mission 10,2212 .788 6406 7,2215 .712 .6618 7,1706 05/36 1.812 .895 Duty environment **15**095 10,1915 632105 General program satisfaction Medical services .6595 768 .067 3796 .3953 1.048 Troop housing. 2/.815 .0154 Arts and crafts Family housing 1.621 1376 Post transportation 5 998 4 652 Substance Labuse program Child care Retirement benefits 2612 5, 1620 Note: = SS/BG (i.e., due to cui alphe) divided by SS/WG (i.e., due to linearity alone)

com Plagerjty Single Predictors iih Career Intentions: Officers Variable. D.F. Sig Pride in the Army 44949 9,4232 .0000 Supervisory support
Personal Job involvement .0000 979 7,4284 :0000 Self-sacrifice for mission 15.201 9,4232 .0000 Buty environment 524 8,2880 .8395 064 General program satisf 9,3497 .0293 Medical services 634 7,4095 7113 Troop_housing

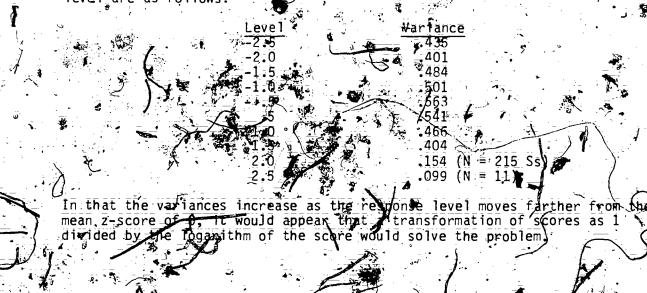
Bost Transportation
Sub Transportation
Arts Crafts 2/324 6,2280 .0306 .849 8,2749 5595 1.484 5,1948 1918 1.147 .3334 Retirement Benefits 5,3170 .390 .8557 $\frac{6}{3531}$ Child care 1.676 .1225 Dependent youth activities .810 .5422 F = SS/BG (i.e., due to curvilinearity alone) divided by SS/WG (i.e., que to linearity alone).



relationship. In the interest of parsimony and ease of understanding, it is believed that little would likely be gained by either employing a factorial analysis of variance design instead of the multiple regression model or rescaling of response alternatives to handle the unique curvilinearity of these relationships. (It is nonetheless interesting that the officer, organizational attitude variables had very significant unique curvilinear and latitude variables had ve

Homogeneity of Variance for Prediction Variables

Hartley's F-maximum test was selected to assess homogeneity of variance. It was decided to consider only those levels of predictor variables which contained more than 10 subjects so that the statistical test would be based on stable variances. Tables 17 and 18 report the calculated F's (i.e., largest variance for a predictor level divided by the smallest variance for a predictor level) and the number of levels with 10 or more subjects in them. Tables of critical values go only to 60 degrees of freedom in the largest variance group. At this level and with eleven variances being contrasted the critical value of F max is 2.7 at alpha = .01. From the calculated F's probably only one variable (pride in the Army among the officer subjects) can be shown to be unacceptably heterogeneous. Variances of this item by response level are as follows:



Homogeneity of Variance pf Single Pr . Variables with Career Intention Variable Supervisory suppor eneral program satisfaction Medical services Troop housing Arts and crafts Reticement benefits



Jable 18

Homogeneity of Variance of Single Predicts

Variables with Career Intentions: Office s

			
1_Variable	Fcale	N of Levels with 10+Ss	
Pride in the Army	* 5.69	10	
Supervisory_support	1.69	Į ji	
Personalidob involvement	1.35	. <u> </u>	
Self-sacrification mission	1.47	11	
Duty envinonment	1.39	10	•
General program satisfaction	1.74	11 🧖	Ū.
Medical services	1.21	j 9	
Troop housing	1.36	8	
Post Transportation	1.17	10 ,	<i>, t</i>
Substance Abuse	1.26	7	•)
Arts & Grafts	, 1,20	<i>y</i> . 7	
Retirement Benefits	1:14	7	
Child care	1.35	8	
Dependent youth activitiess	2 1. <u>28</u>	7	3 .
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